(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



) | 1 Mary 1 Margon (ng 1960) (ng 1960) (ng 1960) (ng 1961) (ng 1961) (ng 1962) (ng 1964) (ng 1964) (ng 1964)

(43) International Publication Date 30 June 2005 (30.06.2005)

T \mathbf{T}

(10) International Publication Number WO 2005/058935 A3

(51) International Patent Classification: C07J 71/00 (2006.01) A61K 9/00 (2006.01)

(21) International Application Number:

PCT/EP2004/053495

(22) International Filing Date:

15 December 2004 (15.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03028848.4

16 December 2003 (16.12.2003) El

(71) Applicant (for all designated States except US): ALTANA PHARMA AG [DE/DE]; Byk-Gulden-Str. 2, 78467 Konstanz (DE).

- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BRUECK-SCHEF-FLER, Antje [DE/DE]; Clara-Schumann-Str. 5, 78464 Konstanz (DE).
- (74) Agents: KRATZER, Bernd et al.; c/o ALTANA Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- of inventor ship (Rule 4.17 (iv))

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
 18 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AQUEOUS SUSPENSIONS OF CICLESONIDE FOR NEBULISATION

(57) Abstract: This invention relates to a method for the preparation of sterile aqueous suspensions of ciclesonide by sterilization with moist heat. The invention further relates to pharmaceutical compositions in particular to sterile aqueous suspensions of ciclesonide for administration by nebulization in the prophylaxis and/or treatment of respiratory diseases.



